

Notice of Allowability	Application No.	Applicant(s)
	09/858,475	LI ET AL.
	Examiner	Art Unit
	AHMED ELALLAM	2616
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. X This communication is responsive to communication filed of	on 06/06/06.	
2. X The allowed claim(s) is/are 1-26, 34-36 respectively renum	bered 1-12, 15-28, 13, 14, and 29.	
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give [a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date [dentifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the supplication of the such sheet. Replacement sheet(s) should be labeled as such in the such sheet.	e been received. been received in Application No cuments have been received in this is of this communication to file a reply of this application. itted. Note the attached EXAMINER' tes reason(s) why the oath or declarated be submitted. son's Patent Drawing Review (PTO-1) of Amendment / Comment or in the Office of the submitted of the submitted. Son's Patent Drawing Review (PTO-1) office of this application.	national stage application from the complying with the requirements S AMENDMENT or NOTICE OF tion is deficient. 948) attached office action of the back of
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n	nust be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary Paper No./Mail Dat 	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	ent of Reasons for Allowance
	SUPERVIS	DORIS H. TO ORY PATENT EXAMINER

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney Ralph A. Dowell on August 16, 2006.

The application has been amended as follows:

In the claims:

Claims 27-33 have been cancelled.

Claim 1:

In claim 1, line 4, the phrase "capable of" has been changed to --for--.

In claim 1, line 8, the term "adapted" has been deleted.

In claim 1, line 15, the term "adapted" has been deleted.

In claim 1, line 21, the term "adapted" has been deleted.

Claim 19:

In claim 19, line 4, the term "adapted" has been deleted.

In claim 19, line 7, the term "adapted" has been deleted.

Claim 36:

In claim 36, line 1, the phrase "adapted to be" has been deleted.

In claim 36, line 2, the phrase "being adopted" has been deleted.

In claim 36, line 3, the term "adapted" has been deleted.

In claim 36, line 10, the term "adapted" has been deleted.

In claim 36, line 16, the term "adapted" has been deleted.

REASON FOR ALLOWANCE

2. The following is an examiner's statement of reasons for allowance:

The prior art of record fail to teach or suggest the following:

A system for forwarding data packets to a mobile terminal comprising (inter alias):

a radio access network comprising a plurality of packet routers, and a plurality of radio access nodes each having a respective coverage area and each for establishing a wireless communications link with mobile terminals within the respective coverage area, each packet router associating a next-hop forwarding entry with each of the radio access nodes;

a first protocol to provide an assigned network address to a mobile terminal for a communications session initially through a particular radio access node within whose coverage area the mobile terminal is located and to broadcast the assigned network address and the network address of the particular radio access node to the plurality of packet routers so as to cause each packet router to create a new next-hop forwarding entry for the mobile terminal to correspond with the next-hop forwarding entry for the

Application/Control Number: 09/858,475

Art Unit: 2616

particular radio access node, a second protocol to update the next-hop forwarding entries for the mobile terminal for a subset of the packet routers when the mobile terminal moves from the coverage area of the particular radio access node to the coverage area of a subsequent radio access node by causing each packet router in the subset of packet routers to change the next-hop forwarding entry for the mobile terminal to correspond with the next-hop forwarding entry for the subsequent radio access node and a third protocol to define the subset of the packet routers for each [particular radio access node, subsequent radio access node] pair such that only the subset of packet routers are required to update their next-hop forwarding entries for a mobile terminal handoff from the particular radio access node to the subsequent radio access node, as indicated in independent claim 1.

A method/mobility agent for forwarding data packets to a mobile terminal within a radio access network comprising a plurality of packet routers and a plurality of radio access nodes each having a respective network address, the method/mobility agent comprising:

providing each packet router with a respective next-hop forwarding table populated with next-hop forwarding entries for each of the plurality of radio access nodes, providing an assigned network address to a mobile terminal for a communications session initially through a particular radio access node within whose coverage area the mobile terminal is located, broadcasting the assigned network address and the network address of the particular radio access node to the plurality of

packet routers so as to cause each packet router to create a new next-hop forwarding entry for the mobile terminal, the new next-hop forwarding entry for the mobile terminal corresponding with the next-hop forwarding entry for the particular radio access node, updating the next-hop forwarding tables of a subset of the plurality of packet routers when the mobile terminal moves from the coverage area of the particular radio access node to the coverage area of a subsequent radio access node by causing each packet router in the subset of packet routers to change the next-hop forwarding entry for the mobile terminal to correspond to the next-hop forwarding entry for the subsequent radio access node, as indicated in independent respective claims 13 and 36.

A packet router comprising (inter alias): a next-hop forwarding table populated with a next-hop forwarding entry for each of a plurality of mobile terminals and radio access nodes, an input adapted to receive a message identifying a network address for a mobile terminal and a network address for a particular radio access node within whose coverage area the mobile terminal is located, a message processor adapted to process the message by:

in the event no next-hop forwarding entry exists for the mobile terminal, adding a new next-hop forwarding entry to the next-hop forwarding table for the mobile terminal, the new next-hop forwarding entry corresponding to the next-hop forwarding entry already in the table for the particular radio access node, and in the event a next-hop forwarding entry exists for the mobile terminal, changing the next-hop forwarding entry

for the mobile terminal to correspond to the next-hop forwarding entry already in the table for the particular radio access node, as indicated in independent claim 19.

Conclusion

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AHMED ELALLAM whose telephone number is (571) 272-3097. The examiner can normally be reached on 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, To Doris can be reached on (571) 272-7629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Application/Control Number: 09/858,475 Page 7

Art Unit: 2616

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A.E Examiner Art Unit 2616 8/16/06